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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/005,273	12/03/2001	Kurt Novak	52508.002	6627
7590 03/04/2005			EXAMINER	
Sean M. Casey Co., L.P.A.			TABATABAI, ABOLFAZL	
Attention: Sean M. Casey P.O. Box 710			ART UNIT	PAPER NUMBER
New Albany, OH 43054-0710			2625	

DATE MAILED: 03/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/005,273	NOVAK, KURT				
Office Action Summary	Examiner	Art Unit				
	Abolfazl Tabatabai	2625				
The MAILING DATE of this communication ap	pears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a report of the period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply within the statutory minimum of thirt I will apply and will expire SIX (6) MON te, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 03 L	December 2001.					
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-23</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>1-23</u> is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>03 December 2001</u> is/are: a) accepted or b)⊠ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea 	ts have been received. ts have been received in Ap prity documents have been	oplication No				
* See the attached detailed Office action for a list of the certified copies not received.						
	·					
. Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Notice of Informal Patent Application (PTO-152)						

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DETAILED ACTION

Drawings

1. Figure 2 is objected to as depicting a block diagram without "readily identifiable" descriptors of each block, as required by 37 CFR 1.84(n). Rule 84(n) requires :labeled representation" graphical symbols, such as blocks; and any that are "not universally recognized may be used, subject to approval by the Office, if they are not likely to be confused with existing conventional symbols, and if they are readily identifiable." In the case of fig. 2 the blocks are not readily identifiable per se. Each block should have been a corresponding label that identifies its function or purpose. A proposed drawing correction or corrected drawings are requires in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Reasons for Allowance

2. The following is an Examiner's statement of reasons for allowance.

The prior art of record fails to teach or suggest, a photogrammetric apparatus comprising an image processor adapted to measure at least one second distance between at least two of a plurality of substantially coplanar points on the object in a pixel unit of measure and at least one of real unit of measure; wherein the image processor is further configured to be calibrated by receiving from the database and processing a calibration image having a plurality of target indicia that are a predetermined real distance apart; wherein, to calibrate, the image processor measures in the pixel unit of

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measure a calibration distance between at least two of the plurality of target indicia in the calibration image and computes an average scale ratio of the predetermined real distance to the calibration distance to compute a calibrated focal length of the imager; and whereby the image processor is thereby calibrated to compute the second distance in real units of measure in combination into other features and elements of claims 1,10, 16 and 22.

3. Claims 1-23 are allowed.

Citation of Relevant Prior Art

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lanckton (U 6 5,216,476) discloses photogrammetric laser system.

Palm (U S 5,699,444) discloses methods and apparatus for using image data determine camera location and orientation.

Babbitt et al (U S 5,589,928) disclose method and apparatus for measuring distance to a target.

Keightley (U S 6,310,644 B1) discloses camera theodolite system.

Girod (U S 5,003,166) discloses multidimensional range mapping with pattern projection and cross correlation.

Conclusion

5. This application is in condition for allowance except for the formal matters as set in paragraph 1 of this office action.

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Prosecution on the merits is closed in accordance with the practice under *Ex* parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Contact Information

6. Any inquiry concerning this communication or earlier communications from the Examiner should be directed to ABOLFAZL TABATABAI whose telephone number is (703) 306-5917.

The Examiner can normally be reached on Monday through Friday from 9:30 a.m. to 7:30 p.m. If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Mehta Bhavesh M, can be reached at (703) 308-5246. The fax phone number for organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Abolfazl Tabatabai

Patent Examiner

Group Art Unit 2625

March 3, 2005

A-Tahatahar

KANJISHAI PATEL PRIMARY EXAMINER

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